SCALING WEB PIX

The print area of a Web Picture on the class site should be 384 x 576 pixels Digital photograph files contain only the actual picture but scanned prints from film include black borders and surrounding white space of varying proportions. Below is the recipe for making all POW web pix the same size.

<u>determine</u> the size in pixels of the short side of the entire scan
<u>use</u> IMAGE> IMAGE SIZE
<u>determine</u> the size in pixels of the short side of the inside print area
<u>use</u> the MEASURE tool in the toolbox
<u>show the INFO box</u> with WINDOW> SHOW INFO
<u>view the print</u> at FIT TO SCREEN size [CMD] **0**

<u>click on</u> the MEASURE tool, or -
<u>click and hold</u> the EYEDROPPER tool
to reveal the hidden MEASURE tool
<u>position</u> the MEASURE tool cursor at one edge of the print
<u>hold down</u> the [SHIFT] key to constrain the movement
<u>drag the cursor</u> to the other end of the print
<u>look at the info box</u> to see the length of the MEASURE tool line
this is the size of the print area
<u>know</u> the size in pixels of the short side of the finished web pic = 384

this generates the ratio of:
overall web size / web print area = overall area / print area
that solves as
overall print size = web print area x overall area / print area

EXAMPLE CALCULATION

a picture is scanned and the outside dimension of the short side is 1540 pixels
the MEASURE tool is used to determine that the inside picture area is 1490 pixels
the desired size of the web pic is 384 pixels
use a calculator to get 1540 / 1490 = 1.033557
there is a calculator app inside the Apple Menu
put the bigger number in first
the result should be bigger than 1
multiply this scaling ration by 384 to get 396.88
round up to 397

resize the picture
set the image size of the shorter side to 397
the inside picture size will be 384
the black border and the white space around that
will surround the picture, exceeding its dimensions

This way all pictures on the web page will be the same size, with varying borders.
This makes the site appear consistent and well designed.

THUMBNAIL SCALING

This same method is also used to determine the size of thumbnails for the class web site. Just substitute the number 96 for 384 in the above equation. See, arithmetic is not so painful. Well...

digital photography   *Steven Berkowitz*